

Amendment To The Substitute Specification:

Please amend paragraphs[0022] and [0043] of the Substitute Specification as follows:

[0022] In one advantageous refinement, the evaluation unit has a time difference module TDM with a first time difference signal input, a second time difference signal input and a time difference output. The first partial discharge output signal is applied to the first time difference signal input, and the second partial discharge output signal is applied to the second time difference signal input. The evaluation unit is designed such that the time difference between the arrival of the first partial discharge output signal from the first sensor at the time difference module and the arrival of the partial discharge output signal from the second sensor at the time difference module is determined, and is produced as the time difference output signal at the time difference output. The evaluation unit 5 has, in this case, a calculation module CM with a calculation input to which the time difference output signal is applied, and which is designed such that a partial discharge location value is calculated, which indicates the point of origin of the partial discharge on the conductor bar.

[0043] Figure 2 illustrates a highly simplified measurement arrangement. A first sensor 5 and a second sensor 6 are fitted to one surface of the conductor bar 3. The first sensor 5 and the second sensor 6 are designed to detect signals which are caused by the partial discharge and propagate along the conductor bar 3. The first sensor 5 is designed to emit a first partial discharge output signal 42, which reflects a first detection time and is applied to the first sensor 5. The second sensor 6 is designed to emit a second partial discharge output signal 43 which reflects a second detection time and is applied to the second sensor 6. A partial discharge occurs at the point of origin 7 on the conductor bar 3 as a result of damaged insulation. The partial discharge propagates as a signal on the one hand in the direction of the first sensor 5 and on the other hand in the direction of the second sensor 6. The first sensor 5 and second sensor 6 are fitted to the conductor bar 3 at a distance 1 from one another.